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21. (New) The block copolymer of claim 20, wherein said B block is a polymeric block of (2-methoxyethyl)acrylate.

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22. (New) The block copolymer of claim 20, wherein the A block is a polymeric block of monomer selected from the group consisting of methyl methacrylate and N,N-dimethylacrylamide.

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23. (New) A block copolymer characterized by the general formula $(AB)_n$ -Core, where A is a polymeric block and B is a polymeric block of (2-methoxyethyl)acrylate, and Core is a non-polymeric linking core; wherein said block copolymer comprises at least one random block comprised of two or more monomers, wherein at least one of said two or more monomers is hydrophilic, and at least one of said two or more monomers is hydrophobic, such that an absolute difference in log p between said at least one hydrophobic and hydrophilic monomers is at least about 0.5; and n is 2 or more; and provided that said block copolymer is soluble or miscible in water, methanol, ethanol or isopropanol or any combination thereof at a concentration of at least about 20 mg/mL at room temperature.

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24. (New) The block copolymer of claim 23, wherein the A block is a polymeric block of monomer selected from the group consisting of methyl methacrylate and N,N-dimethylacrylamide.

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25. (New) A block copolymer that is at least soluble or miscible in water, methanol, ethanol or isopropanol or any combination thereof at a concentration of at least about 20 mg/mL,

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comprising a polymer having at least the structure A-B-A, where A and B are polymeric blocks, and wherein said polymer comprises at least one random block comprised of two or more monomers, provided that at least one of said two or more monomers in said random block is hydrophilic and has a log p value less than or equal to 1, and at least one of said two or more monomers is hydrophobic and has a log p value greater than or equal to 2.

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26. (New) The block copolymer of claim 25, wherein said B block is a polymeric block of (2-methoxyethyl)acrylate.

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27. (New) The block copolymer of claim 25, wherein the A block is a polymeric block of monomer selected from the group consisting of methyl methacrylate and N,N-dimethylacrylamide.

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28. (New) A block co-polymer that is at least partially soluble or miscible in water, methanol, ethanol or isopropanol or any combination thereof at a concentration of at least about 20 mg/mL, comprising a polymer having at least the structure A-B-A, where A is a polymeric block and B is a polymeric block of (2-methoxyethyl)acrylate, and wherein said polymer comprises at least one random block comprised of two or more monomers, provided that at least one of said two or more monomers in said random block is hydrophilic and at least one of said two or more monomers is hydrophobic, wherein the absolute difference in log p between said hydrophobic and hydrophilic monomers is at least about 0.5.